

19980902.ba v02_n197.bam.980902 v02_n198.bam.980902

>From ???@??? Wed Sep 02 13:04:33 1998
Message-Id: <199809021501.KAA21119@sco.theporch.com>
Date: Wed, 2 Sep 1998 10:00:36 CDT
Subject: BOATANCHORS digest 2197

BOATANCHORS Digest 2197

Topics covered in this issue include:

- 1) 6JB6s needed
by David and Shari Abell <dabell@aloha.net>
- 2) Tube sale...
by William Donzelli <william@ans.net>
- 3) Re: movie BA sighting
by William Donzelli <william@ans.net>
- 4) EXTENDED INACTIVITY
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 5) RE: R390URR ferrite slug
by "Christopher A. Bowne" <radiobwn@riconnect.com>
- 6) Need Collins Manual and Info
by George Humphrey <gah@koyote.com>
- 7) Re: Fw: Re: Today's tubes
by Ethan <ethan@olywa.net>
- 8) B & W balun stumps Extra dad
by MNHopkins@aol.com
- 9) R390URR ferrite slug
by laffitte@prtc.net (laffitte)
- 10) Re: Help with SP-600 info (II)
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
- 11) Identity of TELEGRAPH KEY
by David Prince <davprin@gil.com.au>
- 12) ARC-21 Oscillator module available
by Mike Warren <m_warren@compuserve.com>
- 13) FS: Panoramic (Singer) SB-15a Spectrum Analyzer
by Mike Warren <m_warren@compuserve.com>
- 14) Re: B & W balun stumps Extra dad
by "P. J. Rovero" <provero@connix.com>
- 15) Re: Part ID
by k5jv@vonl.com (Lon W. Cottingham)
- 16) Re: movie BA / Plan 9
by polepeeg@aa4rm.ba-watch.org (Marty's Refl. Drop)
- 17) Re: BOATANCHORS digest 2196
by Jderm740@aol.com
- 18) RCA TMV-122-B Manual Offered
by jkh@lexis-nexis.com (John Heck)
- 19) R390 ferrite slug solved but...

- by laffitte@prtc.net (laffitte)
- 20) Tube sale, update
by William Donzelli <william@ans.net>
- 21) RE: Radiotron Designers Handbook??
by Ed Sieb <esieb@gmsiworld.com>
- 22) Off to Rochester
by William Donzelli <william@ans.net>
- 23) Re: R390URR ferrite slug
by John Shriver <jas@shiva.com>
- 24) Tube sale, another update
by William Donzelli <william@ans.net>
- 25) Re: Tube sale, another update
by William Donzelli <william@ans.net>

Message-Id: <3.0.1.32.19980901160420.00697dec@aloha.net>

Date: Tue, 01 Sep 1998 16:04:20 -1000

To: Old Tube Radios <boatanchors@theporch.com>

From: David and Shari Abell <dabell@aloha.net>

Subject: 6JB6s needed

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hello all,

I am trying to service my newest acquisition, a Drake T4XB transmitter. After setting the power supply bias correctly, the tuneup procedure produces no effect on the meter. Can't tune the transmitter. No output is indicated. Finals filaments glow but no additional lighting is apparent when switched to "tune". Must need new finals.

I would like to buy a pair of 6JB6 tubes if anyone has some spares. Please email with price.

Thanks,

Dave Abell
dabell@aloha.net

Date: Tue, 1 Sep 1998 22:05:42 -0400 (EDT)

From: William Donzelli <william@ans.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Tube sale...

Message-Id: <Pine.GS0.3.96.980901214312.23346B-100000@titan.purch.ans.net>

Mime-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

...blowout, riot, liquidation...

I have a BIG box of little military tubes that I really need to get rid of. Why? They are mostly 1950-60s types, and used in things not 1930-40s Navy! They are all new in the box, some having the equipment they were to be spares for, and some of them I have in good sized bunches.

Anyway, here is the first batch (second to come later):

- (14) 5Y3GT
- (60) 6AK5
- (46) 6AK6
- (2) 6BA6
- (6) 6BH6
- (12) 6BJ6
- (6) 7C7
- (8) 26Z5W
- (7) 1007
- (16) 5696
- (23) 5726/6AL5W
- (22) 5749/6BA6W
- (2) GRM 300-8 (ummmm...duhhh...ballast tube?)

Does anyone need any of these CHEAP? Like a quarter a piece (and do not be suprised if you get bonus 6AK5s) for the little ones, maybe a tad more for the bigger ones? Quantity discounts really apply here, folks. Certainly everyone needs genuine military spares for thier R-390s, AN/GRR-5s, TS-whatevers, etc..

Additionally, I have a small lot of 1.5 and 3 volt types (also military), good for you ground radio fans. I did not sort them, but it looks like 25 boxed tubes with numbers like 1L4, 1U4, 1U5, 3A4, etc.. Anyone want the lot of these cheap?

I also have two definite wierd types, both Amperex 6HU6/EM87 (non-military) display tubes. It appears that these are another variation of the familiar eye tube, but with the screen facing the side of the tube. Perhaps it makes a variable-length bar of green. I wonder - is this a scarce type that the audio types want for their vintage receivers? Anyway, these two are up for grabs, individually or as a pair (left and right, of course!).

Buyer(s) pays shipping (\$3, probably), and I am always open to trades (Navy tubes, radar tubes, 1920-30s tubes, neeto tubes, just not little miniature military tubes!).

William Donzelli
william@ans.net

Date: Tue, 1 Sep 1998 22:13:34 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: movie BA sighting
Message-Id: <Pine.GS0.3.96.980901220640.23346C-100000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> When I am bored and the time is right, I occasionally watch one of the
> local channels that has some pretty bad, old, sci-fi movies.

Ahhh...so you watch Svengoolie too!

I saw a Bendix TA-12, one of the sections from a Navy GO or TBW, and a very interesting looking multisection unit with a 1920-30s look about it.

Pretty sad, considering how some of these horrible movies probably contain the best "hard" information for some very interesting sets. One film I saw had quite a few pre-WW2 shipboard transmitters as bits of the set - probably the best evidence that the things ever existed, as the manuals and rigs are probably long gone...

William Donzelli
william@ans.net

Date: Tue, 1 Sep 1998 22:23:58 -0400
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: EXTENDED INACTIVITY
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809012224_MC2-5813-FD09@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Group,

Yesterday, I downloaded my e-mail for the first time in two months. The volume scared me so much that I haven't looked at any of it. Today I had=
a
message on my voice mail from a friend in Austin which indicated that the=
re
was some concern as to my continued existence among the living. I'm stil=
l
here (alive). I've spent the past seven weeks, an average of about 20

hours a day, including weekends, nailing the lid onto the coffin of the bastards who bought my company two years ago next week and tried to run me and all of my people off. Well, to paraphrase Lazarus Long, we've now outlived most of them. . VETCO uber allus. The remaining enemy will either surrender shortly, or go stand in line outside the Texas Employment Commission. =

Seriously, I apologize to those to whom I owe parts or equipment which is mostly long overdue. I will spend most of the next week or so catching up unpaid bills and etc. So, if you have been expecting hardware or manuals from me, I expect to start shipping in about a week. & hope to be caught up by the middle of October, if not earlier.

Sincerely,
Robert Downs
WA5CAB

Message-ID: <01BDD5F8.62A491C0@mys18.riconnect.com>
From: "Christopher A. Bowne" <radiobwn@riconnect.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "'boatanchors@theporch.com'" <boatanchors@theporch.com>
Subject: RE: R390URR ferrite slug
Date: Tue, 1 Sep 1998 22:27:55 -0400
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

I had the same thing happen to my R-392. It was relatively easy to fix. =
I am assuming that on yours, the slug itself is intact, and it merely =
separated from the lead screw. Here's what I did:

Remove the slug rack assembly from the subject coil and associated =
coils. It is retained by a pair of springs which can be disconnected from =
the rack, allowing it to be lifted out. =20

Extract the errant slug from its coil using a toothpick, small wire, or =
whatever you can get a purchase on it with.

Reattach the slug to its lead screw with gel super glue. After the glue =
has cured, carefully reinstall the slug rack and slugs into their =

respective coils, and reattach the retainer springs. If the slug is =
broken in two parts, I would try to glue them back together with a dab =
of superglue. I don't believe that having two electrically discrete =
pieces of ferrite would significantly affect the coil inductance vs. a =
single large piece, as long as the total amount of ferrous material, and =
overall shape factor was not changed too much.

73,

Chris Bowne, AJ1G
Stonington, CT
radiobwn@ricconnect.com

Message-Id: <3.0.5.32.19980901214631.007d4980@mail.koyote.com>
Date: Tue, 01 Sep 1998 21:46:31 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: George Humphrey <gah@koyote.com>
Subject: Need Collins Manual and Info
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAers,

Some time ago I asked about a piece of Collins gear I had purchased at a
salvage sale and someone was nice enough to tell me it is a power supply,
but not a lot of additional information. (Computer with that message stolen
when my house was buglarized) The unit is heavy metal, lots of iron, and is
a Type 242F 5 with a part number of 544 7786 005 and serial number 600. It
has two 3B28 or 866 tubes, a 5R4GY and several smaller tubes, large
transformers, caps, high voltage stuff and is rack mounted. It has a small
control panel with fuse holders, power switch and what I thought a little
unusal, a mic receptacle and a PTT/On switch. Also a Remote/Local switch.
Power input is either 115/230VAC. This unit has a TEMCO (old E-Systems) tag
and another tag with R/T-6 and hand pencil 121.3/121.7 (Freq???)

I would like a manual, schematic, and or some general information on the
unit. It might be real usefull for some of the other old gear I have packed
away the last two years.

Message-ID: <35ECB18B.38FF39B3@olywa.net>
Date: Tue, 01 Sep 1998 19:46:35 -0700
From: Ethan <ethan@olywa.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: Re: Today's tubes

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> In response to a request to Svetlana per my posting.....
>
<snip>

I think this may be the article referred to:

<http://www.spectrum.ieee.org/select/0898/tube.html>

Ethan

From: MNHopkins@aol.com
Message-ID: <3a0bbb00.35ecb121@aol.com>
Date: Tue, 1 Sep 1998 22:44:49 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: B & W balun stumps Extra dad
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

My kid, KC5FDL, who is a Morse code tech and was for two weeks one of hamdom's last Novices, thinks Extras know a lot about radio. When we were inventoring a SK estate once, he heard me say "I've never heard of one of those before." On that, he bought the KAAR 10-Z TX in the latest CQ calendar.

But of course, we really just develop a humility, and mine developed a little more tonite digging out the shop of a SK. Before me are two gray B&K boxes 4.5 x 4.5 x 3.25 inches with 239 inputs qnd big voltage insulated outputs a pair. Model 701 for 15M and Model 702 for 20M, they say. I can assume they are baluns as they represent to change 75 Ohms unbalanced to 100 Ohms balanced, BUT, why did the OTs want to go to 100 Ohms? My dipole does not fold to that and a whip that would show 100 Ohms would have to be longer than Jackatak's.

73 de ab5L, michael in dallas, student of Tecraft and International Crystal (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
Michael Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@AOL.com

Message-ID: <35EC950E.75E37AC7@prtc.net>
Date: Tue, 01 Sep 1998 21:45:03 -0300
From: laffitte@prtc.net (laffitte)
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R390URR ferrite slug
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Anchorites:

Wow!! so many replies to my posting has solidified my true belief in this list and its members. I will try to use some epoxy or superglue on it as many of you recommended. I'll let you know what happens. A million thanks to all of you!!

Best 73s
Guido KP4FAR

Message-Id: <3.0.1.32.19980902081252.006b5184@192.168.0.1>
Date: Wed, 02 Sep 1998 08:12:52 +0200
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: Re: Help with SP-600 info (II)
Cc: "T Hoyer" <hoyer@netreach.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello gang,

Some days ago I asked about an 'special' SP-600... Well, I've just seen this info on the NEWS. I think it is interesting, as it gives some clues about that special units.

Subject: FS: Hammarlund SP-600J (Modified by Northern Radio Co.)
Date: Wed, 02 Sep 1998 00:29:09 -0400
From: Stephen Salamin

Good Evening...

My Grandfather founded and operated Northern Radio Company, NY, NY and a Canadian division, N.R. Mfg. Co., Ltd. Ottawa.

My father also worked there (VP) until Harris (Intertype) took control

and absorbed in 1972 or so.

They manufactured wireless telecommunication equipment (teletype), esp. for U.S.Gov't, etc.

I have a single item available for sale....READ ON...

=====

NORTHERN RADIO Type 159 Model 1 Radio Receiver.....

A HAMMARLUND SP-600J Receiver, "...specially modified so it may be used in dual or triple diversity receiving systems. It will receive any one of the commonly used modulations, such as frequency shift, CW or Voice (telephone) communications....can be used for radio teleprinter reception, undulator tape recording and program reception, Multiplex teleprinter circuits, or for remote service where the intelligence is to be transmitted via land line or UHF link."

Freq. Range: 540 kilocycles to 54.0 megacycles in 6 bands.

Output: 2.5 watts undistorted

Sensitivity: 2.3 microvolts or better, signal to noise 10:1

Northern Radio Company Type 159 / Model 1 / Serial No 1147

Hammarlund Serial Number 54716519

<rest of message snipped>

Hope you found this interesting!

Best regards.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

** VISIT MY VINTAGE RADIO SITE - updated 28-August-1998 ***

<http://www.geocities.com/SiliconValley/6992/>

e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Message-ID: <35ED209A.53CD9B87@gil.com.au>
Date: Wed, 02 Sep 1998 20:40:27 +1000
From: David Prince <davprin@gil.com.au>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Identity of TELEGRAPH KEY
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All,

Hope this isn't too far of topic.

I have a key that I would like identified. Please point your browser to

<http://www.home.gil.com.au/~davprin/what.html>

Thanks all and cheers from DownUnder

Dave Prince VK4KDP
davprin@gil.com.au

Date: Wed, 2 Sep 1998 07:00:56 -0400
From: Mike Warren <m_warren@compuserve.com>
Subject: ARC-21 Oscillator module available
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809020701_MC2-5824-326B@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hi Gang,

Thought I would see if anyone needed this before I junked it. Hope someone
can use it . . .

0-180A/ARC-21, Oscillator, FSN 5821-345-6964, made by RCA.

It's mounted in a nice open-sided wooden protective box and has a large
yellow Air Force tag with stamps indicating it was inspected in 1960 and
1963. It looks complete.

Be forewarned, however. The tag says "Unauthorized persons removing,
defacing,
or destroying this tag may be subject to a fine of not more than \$1,000 or
1

imprisonment
for not more than one year or both". You're on your own if you get caught
by the tag police!

Shipping weight is 6 lbs.

73,
Mike Warren
W5MAZ (in MN)

Date: Wed, 2 Sep 1998 07:01:16 -0400
From: Mike Warren <m_warren@compuserve.com>
Subject: FS: Panoramic (Singer) SB-15a Spectrum Analyzer
To: Old Tube Radios <boatanchors@theporch.com>
Cc: BASWAPLIST <baswaplist@foothill.net>
Message-ID: <199809020701_MC2-5824-3272@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Well, I've had my fun, and I need to make room for new acquisitions.

This thing is big (19" W x 9" H x 18" D) and heavy (50 lbs.). It's a
rack-mount unit and includes the original manual. It has 28 tubes,
including the 5" CRT. The input frequency range is tunable from 100 Hz to
600 kHz, so it's perfect for your 455 kHz I.F. Boatanchor receivers. Input
impedance is 50,000 ohms. The sweep width is adjustable from 1 kHz to 200
kHz and the sweep rate from 1 to 60 cps. The vertical display is
switchable LOG or LIN and is calibrated in DB. Many other features - let
me know if you need more info.

This is a commercial-grade unit and is completely operational. I currently
have it hooked up to my GPR-90 -- you can actually see each sideband on W=V
and measure both the carrier and sideband amplitude. =

I'd like \$125 plus shipping. =

Mike Warren
W5MAZ (in MN)

Date: Wed, 2 Sep 1998 08:02:34 -0400 (EDT)
From: "P. J. Rovero" <provero@connix.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: B & W balun stumps Extra dad
Message-ID: <Pine.BSI.3.95.980902080050.4005A-100000@comet.connix.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The baluns were designed for Yagis, where the driven element would be lower impedance if single, but folded would be around 100 ohms.

P. J. "Josh" Rovero	email: provero@connix.com
Oceanographer	work: rovero@sonalysts.com
Meteorologist	radio: KK1D
Curmudgeon at Large	web: http://www.connix.com/~provero/

Message-ID: <011001bdd673\$e9f25d80\$690adfd0@k5jv.kingwoodcable.com>
From: k5jv@von1.com (Lon W. Cottingham)
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "BASWAPLIST" <baswaplist@foothill.net>,
"Boat Anchors" <boatanchors@theporch.com>
Subject: Re: Part ID
Date: Wed, 2 Sep 1998 08:16:35 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Michael,

Don't despair. I have been following this thread. I'm with you, I thought that some of the replies were a little out of place. That is part of the game. You need to develop a real hard shell to survive in the List business. There are a few real nerds on this and the BA list (actually, I guess, all lists) but, 99 percent of list users are real decent people.

73 de Lon Cottingham, K5JV

Date: Wed, 2 Sep 1998 09:28:41 -0400
From: polepeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)

Message-Id: <199809021328.JAA06530@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: movie BA / Plan 9

Well pre-Lucent AT&T decided about 8 years back to make a "object-oriented" successor to Unix (to match Apple's purple, NeXt's NeXtstep, & a Sun something). They commissioned two of the world's best computer scientists Brian Kernighan & Dennis Richie to spearhead the effort.

The development plan was named after this movie... the all-time world's worst. Plan9

Note a 40s office ceiling light diffuser is Gort the robot's ship in When the World's Collide. And the CPU in TRON was... the a\$\$ end of a '59 Chev.

Marty

Plan 9 s/w was actually college-released in dribs B4 Unix Sys Labs sold to Noorda/Novell.

From: Jderm740@aol.com
Message-ID: <c84fdc09.35ed49b6@aol.com>
Date: Wed, 2 Sep 1998 09:35:50 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: BOATANCHORS digest 2196
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Ed Wood strikes again

The film "Plan 9 from outer Space" was from the schlock director and producer Ed Wood.
Recently there was a full length film released on Wood's life and work.

Jack

Date: Wed, 2 Sep 1998 09:39:23 -0400
From: jkh@lexis-nexis.com (John Heck)
Message-Id: <199809021339.JAA23810@psc7128.lexis-nexis.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RCA TMV-122-B Manual Offered

Folks,

I was recently fortunate enough to acquire a nice example of an RCA TMV-122-B Oscillograph, complete with manual. This is a 1935 vintage o'scope, and certainly an early example of such an instrument. I already had the companion RCA TMV-98-B signal generator which, along with the o'scope, made a complete AM alignment setup of the best sort then available.

I would be willing to make a copy of the manual for anyone who would send me an large SASE. I'm sure they are rather hard to come by and it would be a must if you already have the scope, and makes interesting reading if you are just interested in early o'scopes.

I am also *looking* for a manual, or a copy of one, for the TMV-98-B signal generator. This is a small unit with a leather handle(of the briefcase variety) and a National Type "B" vernier dial which rather dwarfs the front panel, to give you some idea of the size. A manual for this piece would be very welcome. Thank you.

Message-ID: <35ED4168.7502581B@prtc.net>
Date: Wed, 02 Sep 1998 10:00:24 -0300
From: laffitte@prtc.net (laffitte)
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R390 ferrite slug solved but...
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang:

The response to my ferrite slug problem has been tremendous and I thank all of you for the recommendations. The tip of the slug was broken diagonally. Apparently the diagonal piece broke sometime ago because I could not find it. I used epoxy and molded it to form the missing part at the same time that I attached the small spring. It worked well and I got it back in place and working. BUT!! the 7 and 8 Mhz bands are still troublesome. Reception on 7 Mhz returned after moving the MC control up and down. It is below normal. On 8Mhz I get also below normal reception if at all. All other bands below 8 seem ok. Any ideas? Maybe the 10Mhz crystal in the crystal osc. is the problem but it also controls some upper bands(up to 15Mhz it is ok) that I haven't checked yet. The slug + band problems all happened at the same time. Thanks again guys!!

Best 73s
Guido KP4FAR

BA collector in the Tropics
San Juan, PR USA

Date: Wed, 2 Sep 1998 10:13:06 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Tube sale, update
Message-Id: <Pine.GS0.3.96.980902101116.4399B-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Wow, you people really like tubes!

So many of you have expressed interest most or all of them - it will take me some time to sort everything out.

William Donzelli
william@ans.net

Message-ID: <01BDD65C.0F040960@esieb.gmsiworld.com>
From: Ed Sieb <esieb@gmsiworld.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Radiotron Designers Handbook??
Date: Wed, 2 Sep 1998 10:25:46 -0400
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Would some kindly provide me the toll-free -800- number for Tech America? I think I'll order a copy of The "Radiotron" reprint.

73, de Ed, VA3ES

Date: Wed, 2 Sep 1998 10:26:22 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Off to Rochester
Message-Id: <Pine.GS0.3.96.980902102203.4399C-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I will be going to the AWA meet at Rochester tomorrow, and need a bit of advice...

How easy is it for someone that has not preregistered to get in? Will I have to park four miles away?

Does all of the fun start at 6 AM, just like the Elgin Radiofest? When does it all end each day?

I may stick around for Friday - is there a nearby highway rest area I can stay at?

William Donzelli
william@ans.net

Date: Wed, 2 Sep 1998 10:33:03 -0400
Message-Id: <199809021433.KAA18373@brill.shiva.com>
From: John Shriver <jas@shiva.com>
To: Old Tube Radios <boatanchors@theporch.com>
CC: boatanchors@theporch.com
Subject: Re: R390URR ferrite slug

There can be no performance problem gluing a ferrite slug back together. The whole point of ferrite is that it is a block of very small pieces of iron, each insulated from each other. Eliminates hysteresis problems with larger pieces of iron.

Date: Wed, 2 Sep 1998 10:39:53 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Tube sale, another update
Message-Id: <Pine.GS0.3.96.980902102646.4399D-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just looked over all of the replies to my ad, and it looks like just about every tube is wanted by someone out there (the exceptions being the 7C7s and the 5696 - I figure they will end up as bonuses in each order).

The 25Z6Ws and the battery tubes are clearly in the biggest demand. 5Y3GTs and 5749/6BA6Ws follow shortly behind. A few of the other tube types are wanted by more than one person as well.

I expect to get more mails thru the day, but I think the demand for certain types will be fairly constant.

Now I would like to spread the wealth, but I really do not want to be boxing up tubes for fifty different people. Let me ask for a collective opinion - how about if I simply split up the lots in sizes that I see as

reasonable? Individuals may not get all of the tubes they want, or may not get as many of a certain type, but I would like to make as many people as I can happy. The buyer of the lot of battery tubes may simply get picked by lottery.

Pricing will not change - a quarter for the minis, and a buck for the octals, expect bonus tubes, you pay shipping, blah, blah, blah.

Comments invited.

William Donzelli
william@ans.net

Date: Wed, 2 Sep 1998 11:00:25 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: Tube sale, another update
Message-Id: <Pine.GS0.3.96.980902105838.4399F-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Hi, William, I noted your most recent post because I originally
> responded to your offering about the (8) 26Z5's, and I asked for them
> all. Now I see you refer to them as 25Z6's (a different tube). Perhaps
> you're just human and switched the numbers, it is actually a common
> mistake, and I have made it myself.

You are correct...

To all interested people, the tubes are 26Z5Ws (miniatures!).

William Donzelli
william@ans.net

End of BOATANCHORS Digest 2197

>From ???@??? Thu Sep 03 02:30:58 1998
Message-Id: <199809022242.RAA25125@sco.theporch.com>
Date: Wed, 2 Sep 1998 17:41:41 CDT
Subject: BOATANCHORS digest 2198

BOATANCHORS Digest 2198

Topics covered in this issue include:

- 1) Re: R390URR ferrite slug
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
- 2) WTB 12HG7
by "Ed Santavicca" <santavic@ct.picker.com>
- 3) Ocean Hopper
by WJoew@aol.com
- 4) Re: R390URR ferrite slug
by ail0@lehigh.edu (ARTHUR I. LARKY)
- 5) Re: EXTENDED INACTIVITY
by David Stinson <arc5@ix.netcom.com>
- 6) RE: Radiotron Designers Handbook??
by Ed Sieb <esieb@gmsiworld.com>
- 7) R302 & R328 receivers ???
by BEN NOCK <G4BXD@compuserve.com>
- 8) RS-6 and GRC-109
by BEN NOCK <G4BXD@compuserve.com>
- 9) FS: Heathkit HO-10 scope
by JONWEINER@aol.com
- 10) Re: R390URR ferrite slug
by "Arden Allen" <gumbear@pacbell.net>
- 11) 6JB6 test results - LONG
by Al Parker <anchor@coastalnet.com>
- 12) Re: Fw: Re: Today's tubes
by "Arden Allen" <gumbear@pacbell.net>
- 13) Re: WTB 12HG7
by "Arden Allen" <gumbear@pacbell.net>
- 14) Re: R302 & R328 receivers ???
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 15) AR-88LF Restoration project -- Questions
by "Dennis Gibbs" <dgibbs@Rational.Com>
- 16) Re: 6JB6 test results - LONG
by "Arden Allen" <gumbear@pacbell.net>
- 17) Re: R390URR ferrite slug
by ail0@lehigh.edu (ARTHUR I. LARKY)
- 18) Re: 6JB6 test results - LONG
by Steve Berg <z931086@corn.cso.niu.edu>
- 19) Dumb question-center link/end link
by john <johnmb@mindspring.com>
- 20) Re: 6JB6 test results - LONG
by Al Parker <anchor@coastalnet.com>
- 21) TR-7 endcaps
by k5jv@von1.com (Lon W. Cottingham)
- 22) Conar and Gonset cases
by w4bld@juno.com
- 23) Wireless and the Titanic

73, Ed

AA8TV

From: WJoew@aol.com
Message-ID: <40c650b2.35ed6653@aol.com>
Date: Wed, 2 Sep 1998 11:37:55 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Ocean Hopper
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

The Knight Ocean Hopper I built as a lad used octal tubes, not miniatures. I would like to find one of those, if anybody out there has one they would part with. I see info frequently on the newer miniature tube version of the Ocean Hopper, but not on the older octal tube version.

I do still have the constuction sheet for this kit, with diagram, but, alas, the radio disappeared about 40 years ago.

Joe
W5WBR

Message-Id: <199809021547.LAA76182@ns3-1.CC.Lehigh.EDU>
Date: Wed, 02 Sep 1998 11:47:37 EDT
From: ail0@lehigh.edu (ARTHUR I. LARKY)
Subject: Re: R390URR ferrite slug
To: Old Tube Radios <boatanchors@theporch.com>
Cc: B.H.Jarvis@hw.ac.uk

GM8APX SAID:

>Sorry I can't agree. I superglued a snapped ferrite rod and it seemed
>100% but the inductance (of the coil round it) thereafter was a great
>deal less - maybe 30% less. I have no idea why. I shall ask in group
>sci.physics, confident of 9 wrong answers plus the right one.

My guess is the air gap. If the joint is not really tight, then you have two pieces of ferrite separated by an air gap. The reluctance of air is quite low; that of ferrite quite high. I'd be interested in hearing the other answers.

Art K3HBA

Message-ID: <35ED7503.11A4@ix.netcom.com>

Date: Wed, 02 Sep 1998 11:40:35 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: RWDwns_WA5CAB@compuserve.com
Subject: Re: EXTENDED INACTIVITY
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hurrah for you, Robert!

I'm obviously glad to hear that you're still among the quick,
but doubly-glad to hear you kicked the bad guy's booo-tees.

If only we could have had you around at the Nevada Test Site
when Bleeeeeck-tel began their carnage and destruction,... sigh!

Glad to see you,
73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Message-ID: <01BDD671.31F91D60@esieb.gmsiworld.com>
From: Ed Sieb <esieb@gmsiworld.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Radiotron Designers Handbook??
Date: Wed, 2 Sep 1998 12:57:06 -0400
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Well, we checked their Web site, and called 'em up too.

Out of stock!. Back ordered!
Until? They dunno.

Oh, well. At least we know it's published by Newnes, so we'll try getting in
touch with either themselves, or another
one of their retailers. Sold out already, huh? Hmmm...

Ed, VA3ES

Date: Wed, 2 Sep 1998 13:02:14 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: R302 & R328 receivers ???

To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809021302_MC2-582D-296A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Probably one for our EU readers.

Does anyone have any historical info on these sets ?

Dates, numbers produced, main users etc ??

cheers, Ben G4BXD.

Date: Wed, 2 Sep 1998 13:02:14 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: RS-6 and GRC-109
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809021302_MC2-582D-2969@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Some time ago there was a good debate on these rigs. =

Unfortunately, I have lost the files I made about them. =

So, the question is, what's the date of these sets, when first made ?

Maybe someone used better housekeeping on their pc and has =

these files to hand, otherwise a simple statement of the first =

production dates of both sets will suffice. =

many thanks, Ben G4BXD.

From: JONWEINER@aol.com
Message-ID: <87c03d5.35ed7b2a@aol.com>
Date: Wed, 2 Sep 1998 13:06:50 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0

Subject: FS: Heathkit HO-10 scope
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have the above scope for sale. It is in very good condition, with no external modifications that I can see. It is untested. Includes copy of manual. Price :\$35., plus \$10. shipping.

Jon, K1VVC

Message-Id: <199809021734.KAA19546@mail-gw3.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R390URR ferrite slug
Date: Wed, 2 Sep 1998 10:36:37 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Sez Chris:

".....I don't believe that having two electrically discrete pieces of ferrite would significantly affect the coil inductance vs. a single large piece, as long as the total amount of ferrous material, and overall shape factor was not changed too much."

Not so quick. The problem comes in with the "air gap" which is substantially larger in comparison to the homogeneity of the unbroken slug in the typical "repair job". There is a large dip in permeability at the junction of the two halves which causes a not unsubstantial drop in over-all permeability which affects coil inductance and tuning characteristics. The trick is to mend the slug with as small an air gap as possible. Put the two halves back together WITHOUT any glue and hold under a good amount of compression (without breaking them more). Use the runniest (non-gel) type of cyano-acrylate "super glue" you can find and apply it along the crack. The low surface tension of the glue will allow it to run into the microscopic spaces and produce a strong bond. Allow a good half hour for "curing" before releasing the tension. Hope it works for you.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <3.0.5.32.19980902130945.007e6300@mail1.coastalnet.com>
Date: Wed, 02 Sep 1998 13:09:45 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Al Parker <anchor@coastalnet.com>
Subject: 6JB6 test results - LONG

Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

The following LONG info has been formatted to hopefully be readable as text for most email recipients. If anyone requests, I can attach it to an individual reply as either a *.txt text file, or MSWord *.doc file. I will be in Shelby Thurs. - Sat., so don't expect an early response.
73, A1, W8UT

=====
There has been lots of speculation recently concerning 6JB6 sweep tubes, which are used in the Drake i4 - lineî transmitters. With the encouragement and editorial advice from Dexter Francis and Jim Lockwood, I have characterized a total of 19 6JB6 tubes for power, efficiency, and interelement capacitance. One reason for this test was to evaluate the EI brand tubes from Czechoslovakia, which, along with 2 others, were supplied by Dexter Francis.

CONCLUSIONS

- Σ- iEIî brand tubes will not work reliably in Drake equipment that requires 3 such tubes.
- Σ- All other tube brands work fine in 2X or 3X configurations, however.
- Σ- It is possible that brand iEIî tubes would work satisfactorily in 2X configurations, at least on the lower frequencies.
- Σ- Tube matching may be necessary, but only if they are more than 10% apart in plate current.
- Σ- Cathode resistors and screen resistors should be within 5% (they were a mile off in my TR-3), so check them accurately, and replace as needed.
- Σ- Tubes may be matched by juggling cathode R if the tubes are not too far off. (I donit know how far)
- Σ- Brand used seems to make little difference, except for the iforeignersî.
- Σ- It is easy to measure actual current by voltage across the cathode resistor.
- Σ- You canit tell how good a tube is by looking at it.
- Σ- Measuring transconductance in a tester may do the job, but doing it under actual operating conditions, as above, is probably the only reliable indication.
 - however,
- Σ- TV-7 test readings are indicative of tube igood-nessî.
- Σ- High Cgp is a definite no-no, but all domestic tubes measured were very close, and low, across all brands.

METHODOLOGY

The details of how I performed my measurements and the raw test data follow. The Drake T4XB was used as the ifixtureî for testing 19 6JB6

tubes for power output.

The T4XB had not been aligned or modified for the tests, and was used to feed a 50 ohm dummy load through a URM-120 wattmeter. Both cathode and screen resistors matched within + - 3%. The two original tubes, Sylvania's, were good, and the better one (more cathode current drawn), was retained as the standard, and the tubes to be tested were mounted in the other socket. The baseline tubes could be loaded to over 300 ma total current, and would put out over 150 watts. For testing, the indicated current was held to 300 ma by maintaining plate loading at just under 50%, while tuning for maximum output.

It was found that some tubes could be loaded to more plate current, 320 - 340, by increasing the load control beyond 15, however actual output power dropped when that was done. Drake's tuning procedure calls for tuning for max. output power, and states that this will occur between 250 and 320 ma plate current. Specification says input of 200w. Little if any adjustment was required on the driver loading for the different tubes

Tests were performed at 14.0 mc. Filaments were allowed to heat for approximately 2 minutes. Voltage across the individual cathode resistors was measured, and the current flow was calculated using the separate voltage and resistance values. Power per tube was calculated, using the measured plate voltage of 650. Output power was noted on the 0-500 watt scale with 10w/div. Only in a few cases was the reading interpolated to half a div. Current and power dropped slightly during measurement, and key-up was used between each tube's reading to equalize the amount of droop for each tube after key-down.

The test setup will not allow separate measurement of tube output power.

DISCUSSION

>From the data, it can be seen that the 3 known poor tubes, paired with a good tube, only took less than 1/3 of the total power, and efficiency was lowest of all tests, at 53 - 60%, vs over 70% in all but 2 other cases. Two of the new EI tubes also did not share the load well, at about 1/3 of total power, and the other 2 did take about 45% of the pwr. Efficiency of the latter 2 was good, as best as can be estimated, since single tube output could not be measured.

I put the 2 best good/new EIs in the T4XB, ID 3 & 7. With a lot of fiddling, I could get 100-110w out, at 300ma after neutralization, which was difficult on 14mc. Un-neutralized, I saw 340ma, 150w out, but don't know if it was all 14mc or where. They were matched, at 164 & 154ma, at about 300 on the meter, 220v screen.

Changing bias voltage would increase plate current and output, but idling current went way up to do it, to 150ma or more total/pr, vs 80ma normal.

On 21 & 28mc, this pair would not load up at all. Re-neutralization was not attempted, I didn't think it would make any difference. This setup did produce 140w out at 300ma on 7mc, indicating that the iEI's are frequency sensitive.

I measured input grid-cathode, Cgk, and grid-screen, Cgs, capacitance, which seems to be a big factor, but is very consistent on/between most brands, at 10 - 11.5pf for each value, but significantly higher in the EI's, at 13 - 15pf. Input capacitance is the sum of the 2, and if it's too high, it's about impossible to use a set of three in the TR4.

I could not neutralize the set of 3 EI's in the TR-4 on 10 mtrs. I think the high input cap. is the problem.

I believe the high Cgk & Cgs of the EI's, the failure to load on 21 & 28mc, but the reasonable output on 14mc & lower, would limit their use to the lower frequencies.

The 3 iGood's ones were put in the TR4 and were tested:

#10	ITT	156 ma	100w
11	RCA	156	100
12	West	143	91

455ma 291w total

Output 170 watts, for 58% eff.

450ma on xmtr mtr, 638 volts on plate, -59v bias

Originally, #12 seemed to be the better of the 3.

Note that these are 3 different brands, but each tube did match closely, within + - 3%, to the iStandard's tube, and are + - 5% to each other in the TR-4.

TEST EQUIPMENT

- Σ- Drake T4XB transmitter
- Σ- Douglas Microwave URM-120 wattmeter
- Σ- Fluke Mod. 23 dmm
- Σ- Ballantine mod. 520 Direct-Capacitance Mtr
- Σ- Parker's uncalibrated eyeballs

I tested 5 6JB6's, labeled A thru E below, about 2 weeks after the initial group of 14. Very similar data was found. I did try increasing drive to get max. power out, & recorded pwr & T4XB mtr reading. Most would go to 155-160w out, at 330 ma., vs the ~300ma at test power. I didn't do that earlier, but wish I had, it was no trouble. TV-7 data was available on these 5 only.

TEST DATA

ID nr	Mfr	test tube Cgk	ref. tube Pwr	Pwr	pair Pwr	pair Pwr	Eff. out	Comments
1	EI	15	60	119	179	140	78%	NEW
2	EI	14	61	125	187	100	54%	NEW
3	EI	13	88	109	198	140	71%	NEW
7	EI	15	92	103	195	140	72%	NOS
10	ITT	11	96	95	191	140	73%	good spare
11	RCA	11	96	99	195	145	74%	good spare
4	Syl	11	46	116	162	90	55%	known poor
5	Syl	11.5	55	112	167	100	60%	known poor
6	Syl	11	38	112	150	80	53%	known poor
9	Tung	10	98	100	198	140	71%	NOS
8	W	11	101	95	196	130	66%	NOS
12	W	10.5	97	98	195	150	77%	good spare
X	SYL	11	102	98	199	140	70%	known good
Y	SYL	11	97	102	199	140	70%	used as std
A	GE?AEC	5.8	99	92	191	135	71%	112 on TV-7
B	RCAsonar	5.7	98	99	197	140	71%	110 on TV-7
C	GE	5.7	98	99	197	140	71%	100 on TV-7
D	SYL?RCA	5.7	98	101	198	125	63%	94 on TV-7
E	RCA	5.6	97	104	201	130	65%	112 on TV-7
XvsA			97	108	205	140	68%	
XvsY			96	94	189	140	74%	

iDî would only go to about 145w output for the pair, at 320ma, the lowest.
So, TV-7 readings are indicative of igoodnessî.

Between the first and second test groups, the Cap. Meter changed calibration. I donit have a low cap standard, so could not recalibrate. However, the Cgk of the new 5 tubes are very close together, as were the ones before (except EI). The earlier one I re-checked did come in at the 5.5 - 6.0 area. Wish I knew which actual value is right, however the conclusion re: tube capacitance is still valid.

=====

This has been an interesting exercise, and at least I now have enough 6JB6is to keep my Drakes going for the foreseeable future. (no, I donit want to sell any, now) Iid gladly entertain any discussion or comments. I hope this does provide some light in the murky darkness of conjecture.
Sept. 2, 1998

A. W. Parker, P.E.

W8UT

New Bern, NC

anchor@coastalnet.com

Message-Id: <199809021745.KAA23512@mail-gw3.pacbell.net>

From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: Re: Today's tubes
Date: Wed, 2 Sep 1998 10:47:04 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Ethan;

>
> > In response to a request to Svetlana per my posting.....
> >
> <snip>
>
> I think this may be the article referred to:
>
> <http://www.spectrum.ieee.org/select/0898/tube.html>
>

Almost. That is an abbreviated version of the article. The magazine article contains schematics and data of comparison tests for noise and distortion of various tubes and transistors. It gives you a good understanding of the real technical dimensions related to the debate over tubes v/s transistors. Eric respects the audience he is writing for in his article. Give Terri an e-mail and get the whole thing.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199809021759.KAA28822@mail-gw3.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: WTB 12HG7
Date: Wed, 2 Sep 1998 11:01:30 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Ed;

> Does anyone know of a source for 12HG7 tubes? They are large envelope
> 9 pin miniatures used in the HP-606B

I find mine by looking through those "useless" TV tube collections at the flea/swap. 12GH7/12GN7's were used in TV sets as high gain video amps. Shhhhhhhh.....keep it under your hat.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199809021805.UAA06261@inet.uni2.dk>
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R302 & R328 receivers ???
Date: Wed, 2 Sep 1998 20:01:30 +0200
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Do you mean the Warzaw-pact radios ?

73 Rag OZ8RO

Probably one for our EU readers.

Does anyone have any historical info on these sets ?

Dates, numbers produced, main users etc ??

cheers, Ben G4BXD.

From: "Dennis Gibbs" <dgibbs@Rational.Com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: AR-88LF Restoration project -- Questions
Date: Wed, 2 Sep 1998 14:07:00 -0400
Message-ID: <000001bdd69c\$7c15d610\$7f1515ac@dgibbs.rational.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone,

I am about to begin restoration of a recently acquired RCA AR-88LF. Two questions have come up:

1) Every AR-88 I've seen has had a very dingy-looking chassis. Most radios I've restored have had chassis made out of stamped aluminum which were fairly easy to clean. I don't know what the AR-88 chassis are made of but they sure do look bad. Has anyone found an effective way to

clean/shine the chassis of the RCA AR-88 series?

2) There is a rather ratty-looking oil filled capacitor, rated at .033 MFD at 1000 volts. What should I replace this with? It looks just like an old axial-lead electrolytic.

Regards to all,

Dennis Gibbs
dgibbs@rational.com

Message-Id: <199809021816.LAA05173@mail-gw3.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 6JB6 test results - LONG
Date: Wed, 2 Sep 1998 11:15:51 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Al;

> There has been lots of speculation recently concerning 6JB6 sweep tubes,
> which are used in the Drake "4 - line" transmitters.

Based on my limited experience with sweep tubes in ham rigs I've concluded that, although economically an emergency flotation device for manufacturers, the use of sweep tubes as RF PA's was and is an abomination on Hamdom. You can't beat a 6146 for just plain "you can't make a silk purse out of a hog/sow's (I'm being PC) ear". Your tests prove the point.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199809021824.OAA60560@ns4-1.CC.Lehigh.EDU>
Date: Wed, 02 Sep 1998 14:24:31 EDT
From: ail0@lehigh.edu (ARTHUR I. LARKY)
Subject: Re: R390URR ferrite slug
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Rhett T. George" <rtg@ee.duke.edu>

Rhett Wrote:

> - Art -

>

>I think you are on to something regarding the separation of the two
>ferrite pieces. However, the reluctance of the air is much higher
>than that of the ferrite.

>

>73

Rhett - KE4HIH

>

Yeah. Wrong word. I'll have to order up another batch of crow for supper tonight. What I meant to say was that the air gap INCREASES the reluctance of the magnetic path so the inductor inducts less. (The coil coils less? These new terms like capacitor and kilohertz battle with condenser and kilocycle every time I open my mouth.) I should have taken the advice of a former President of the University who said: "Never give your reasons for a decision, you might have made the right decision for the wrong reasons."

The effect of the crack depends upon the location of the joint. If it is in a position that is not within the flux field of the coil, it won't hurt much.

Art K3HBA

Message-Id: <35ED3DF4.9F40A83@corn.cso.niu.edu>

Date: Wed, 02 Sep 1998 13:45:40 +0100

From: Steve Berg <z931086@corn.cso.niu.edu>

Mime-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: 6JB6 test results - LONG

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Rumor had it a while back that Svetlana was going to make some sweep tubes. Does anyone know if that is true, and if so, which ones and when are they going to be available?

Steve WA9JML

Message-Id: <3.0.3.32.19980902153338.00ceaf90@mindspring.com>

Date: Wed, 02 Sep 1998 15:33:38 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: john <johnmb@mindspring.com>

Subject: Dumb question-center link/end link

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I'm looking at the documentation of a Lettine 240 transmitter, where it specifies that the PA stage uses end link plug in coils, while the oscillator stage uses center link units.

Why the difference? What are the application guidelines for center and end link coils?

Thanks!

/John

```
+-----  
| John Brewer- WB50AU/4  
| AMI #24      Vintage Radio Website  
| http://www.mindspring.com/~johnmb/  
+-----
```

Message-Id: <3.0.5.32.19980902153315.007f5100@mail1.coastalnet.com>
Date: Wed, 02 Sep 1998 15:33:15 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Al Parker <anchor@coastalnet.com>
Subject: Re: 6JB6 test results - LONG
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:16 PM 9/2/98 -0400, John Shriver wrote:

>Obviously, the 6BJ6 wasn't really made by all those different
>manufacturers. Probably only made by two or three, the others bought
>wholesale and rebranded. Probably RCA (black plate) and GE (one side
>of plate bare copper) are likely primary vendors. Any speculation on
>which ones are mechanically identical, and thus probably from the same
>factory?

>

>

I tried to determine this, since I had a pretty good selection. But, it was not obvious to me, with close inspection. There were some similarities in internal parts between some, but not near 100%, some areas same, some different.

I'm sure there was some of what you say, folks have said so. Maybe the real collector/purveyors can tell us.

73,

Message-ID: <01b201bdd6ab\$63967b80\$690adfd0@k5jv.kingwoodcable.com>
From: k5jv@von1.com (Lon W. Cottingham)
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boat Anchors" <boatanchors@theporch.com>,
"Drake Reflector" <drake@qth.net>
Subject: TR-7 endcaps
Date: Wed, 2 Sep 1998 14:53:42 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings to all,

Does anyone happen to have any of the black plastic front panel end caps that go on the Drake TR 6 and 7 Line. I need the right hand one(looking and the front of the rig. Drake has the left end but not the right end. By the way, none of my telephone numbers that I have used for years will not work. Their new switchboard number can be found on the R.L. Drake web page.

73 de Lon Cottingham, K5JV

From: w4bld@juno.com
To: Old Tube Radios <boatanchors@theporch.com>
Date: Wed, 2 Sep 1998 17:30:36 -0300
Subject: Conar and Gonset cases
Message-ID: <19980902.173100.3374.13.w4bld@juno.com>

Hi Gang - I am in need of a case for a Gonset super-ceiver and a Conat 500 transmitter. Junker units will be fine but in the case of the Gonset, there is no case at all and in the case of the Conar, the thing is bent beyond repair. Many Thanks for ANY help, Bob

Robert B. Kerby - W4BLD
PO Box 991 (231 Rosser Avenue)
Waynesboro, VA 22980
(540) 942-4356
(I collect Gonset, Morow and Elmac)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Message-ID: <35EDC88C.CB10363D@idirect.com>
Date: Wed, 02 Sep 1998 18:37:00 -0400
From: Jerry Proc <jproc@idirect.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wireless and the Titanic
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For All You Titanic Fans,

I've just transcribed a story called "Wireless and the Titanic" by Allan Brett VK2EBA. This appeared in the Summer1998 edition of the Royal Naval

Amateur Radio Society newsletter. To read the story, point your browser to:

<http://www3.sympatico.ca/hrc/haida/radio/titanic.htm>

--

Regards,
Jerry Proc VE3FAB jproc@idirect.com
Web: www3.sympatico.ca/hrc/haida
HMCS HAIDA Naval Museum, Toronto Ontario

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Wed, 2 Sep 1998 18:38:16 -0400 (EDT)
Subject: 6JB6'S NEEDED -- WHOA!
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9809021838.aa22081@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Most unlikely that both 6JB6s are bad. They are drawing correct bias, that's good.

Make sure you are following the tuning procedure in the book exactly. Make sure you're switched to use the tx's built in VFO (it can also be slaved to a Drake R-4* rx for transceive). Ck all sw positions for correctness.

Check all tubes up to final.

Sometimes T/R relay sticks or is dirty. The VOX circuit on these tx's has been known to be flakey.

Alignment could be *way* off, ck all bands. Some guys oughta be issued *only* a wax screwdriver!

-John Sehring (2:52 pm Wed, Sep 2, 1998 at Custer, SD USA) ucc wb2eqg

End of BOATANCHORS Digest 2198
